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lated sent to a sumple of the processor poler to the offiance ourselves. TCP Lab Editor, Seus Canuthers, notes that the performance increase is real although our Still, the foundation for fature devices computing has In lay the end of the decade. He also and there was no the craid not be increased. So, the real measure of perform

Sent of the season

ance will shift from how fast the CPU clock is, to how the appoint you've given us during the year past. Best wishes for the holiday assume, and may we all share at a

time-there the tasio at hand. However, this becale down



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wards needs? B's not rocket science!

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because of politics, plann and simple. PLDC. This would meen you can take advan-'s. I feel the most important part of a com-Cornet tich casado, HPI slaves have

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stbly exeq merce-code input), you would be able to kee in "resultsh" through the 158 and rooms a ISB-nasidel adapter and

when needed. When all is said and done, I quess I'm really looking for the perfect subnotebook

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In his article. "It true convertibility achievoperate under Windows RF. I decided to the anyone With the belo of the Windows XF installation program for the Corel WordPerfect Suite 7, and installed lens tratailing and naming Corel

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In the Becember 2002 issue's Leb Yest

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But the eve-popoing feature is the





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rate the software with Ramonal's Office The Payloodanal service (US\$29.95) addition to the Personal version features. esample, can retract and summerce has concepts from a page. The Professional version also allows users to monitor Web

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BOUNDLESS

Sherlock Holmes meets data TCP takes a peek into the world of computer forensic examination

By Davz Chappelle duatem tracked down as individual tracket child potentiero-

who discovered it was a keycasic living in TRI went had represented a strengt of to contact the saverak's recerts, and left er came home, found the card, called the

talk with her son the next day. drive ourtition and constalled the opento a full-findeed data recovery lab, the the timeline of the traded uppers, bir IP coold only have been made against him especially for welfally deserving evidence Formattine and partitioning a drive establishes a "conncionamen of melt" was Mike McTerath, supervisor of

come una The poisos decided not to go to the ionadevable envise of purpose the particular case, but had they choem to, In addition to low references work.

his developed a powerful Wandowsalled EnCose. Coldanor Software at a

classes "started in a garage" (by a police officer) success story that now has proper than 100 employees. Along with acting the software, it trans former course are and many nolles officers includes some from Carachan policing supposes.

Guidance Seflyme defines computer formio to the autualities, overview tons, and replyes of dignel information that mosts the receivements of evidence for court presentation Dynal evidence

a bard or ficency data. USB drive.

Congrectities or SmartMedia cods, CD-BOMs, or new other data storage strict, and it must meet a cortice state ed thus supply snooping around a sus-

post's drove useast Windows Explorer.

Singly booting a Windows designate alters does and time started and the one ers. In short, even the boot process and the consents of the drive, potentially undererhope the inventer of malence police may be trying to either If the date he admissable in court.

Preserving evidence for examination but are builted in function and receipt a where FaCase has established its followrsg, being faster and more capible then Thre cabasets, because whole a poper

document can be easily shoulded, defet me a document from a computer disk. can still be located with the night tools. ten," says Terry Willia, a detective with cutry critic and and earl-time EnGree enstructur "& suspect can approde a composer, format his old drive, and nive written the original data, it's still there." - Willia sees his sensification includes Los Acades International Airport, a

mutiacly used to recover them. Officers ware on liquips for sale Unallocated clumes often reseal renduc of an old OS Continued on page 14





< SECURITY & COMPUTING > tion, defence attempted have puttined makes training important—and is also (and pervious ovenessky). way to stacking the methodology of so extensive and boos training facility as castir available foregain software spellica-

Tales from the computer forensic front

An individual in Detario was chatting of business to the gallery. online with someone in fee trylvania dur-

Building an airtight care on wheel knot how Gains about a fundance taken from computers often fied RCNP, who notified Pennsylvania

forms only a portion of that necessary for case-building to sathering enough before classes let out for the day. To deter-

Pennovivania State Police computer crime webdite of the threat ascertained. body of a woman in her 20s. found Disgranted employee erweet is a rower fit a staffage date. Requir irrestigation found that the employees stooling trade secrets or cusand lastes. Minches carpet Fibres were

employer's systems. Terry Willis, a decision the with the Los Another Police Purther investigation showed her to be Department, recounts a sixtiffy different sites, some of which required a password, bigators found pages from astrology sites In the term and racky folders, accessed within four hours of the estimated time of

so a Yahoo account in the name of the home to email all clients a notice that the forms the striketion to the rest show. yes the site passworks, the fibers and A cultry on admin discovered nodence of the Yahoe account revolute. close to the time of her death helped con-Loter a search warrant LAPA officers used

ErCase In Preview Mode to see the

home. She received 90 days to pail and there years replation, and her future waves were samplesed to cover the loss: most tilesty to find an admissible of stalls

pitted. Fee people are seen of each bothered usine them

Las Angeles Harbor, Bruesbeaton found living outside the country, stating that a MY was poor.

Timing is everything folders are good places to look for the last A 632 a.m. call to a Personneris 511.

been stabbed to the head at his home, he both parents deried it. Responding offihome FC, and called the computer of the fair concluded someone had been soling the computer to view child gornocraphs until mostly 15 waytes before the 911 father's demands to remit what he had

have vication ratios so the father

stabled him.

instructors are full time law enforcement officers who was their vacations to teach. They are also sure expensioned with Feillaw, having used it to collect The opportunity to consuct child correspondent and other corresponds to a many motivation for formac commit-

ers. What else attacks people to the work) of company forespect "It sounds correr, but you're getting, Proofe do thous on their computers they'd never to elsewhere" says Mike with Guidance Software (Forder shohas 14 years experience in law enfocce-

network security.) "It borden on vermism, because yearn looking at a one rise sell erest see" over thinks no loneer man. Recycle him date, even after a drive has been referdence of magicious files, revoluntors flies on their system, or that the OS put

know better. "South to the recycle from in

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any differences in solving between boards strengths and weaknesses A cale shoul the testing All mother-Part 256 MS Executive PRESSS medicine thee waskingstorous for Konstan's condThe honers were healed with the diffice.

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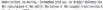




































































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good brandle as well. While all appopula

Wireless waxes and wanes but innovation still strong who could use serv south performance

By Sean Carrythers

AS VEGAS--Over the three days of of Comdex Las Venns 2002, we and that events of needs action Flot spots are publicly accessible areas works, desirand for access he surrow

couldn't get on the network, and those

some other inamalots who attented the the Internet in the conference more area hall with my waveless-enabled apprehenic (the lights on the card would to influen PDA. The publishe cares down to one of het spots had a lympod number of 32

their secries betweek and acres nor My expension here show that public see head to get onto, and others

property of fewer attenders and othicities, there was still pleaty to see

Salarra DV and on strakin code

Verso Corroles, emplaco giart Nordio was showing off at new graphics card

The cards are built mone the new 0.13. to arresplaces. We the first card away able commercially to make our of DOR? eraphics resonance unit (CRES has ESS million transactors and furnition 8-road pupilings, each puntage of a speed of 500 MHz, a deferre branco un over the com-

with that of its former correction in the

THERE WE also so not the memory clock up to 1 GHs. The cords will also make one of the report and finter AGP BY has Jen-Haux Floung, "contractic comput-The GeForts/X name is decised from Contraced on page 66



RJ46 Wall Plate-Orimp Too-Punch Down York Rack-Fibre Optics-ATA123/100/46/32 IDE Cable-For Mobile Back, VGA Cable CDR - Jesus! Casa Eletteries REFE 1354 Extractor Audio Cable-1858 Cont-610-Hob BCBI Cubits - Terrespetor - HEEE 5984 Brester Cable and MORE

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be for it's only olest when the fin is spin down.)

May longuise Nordic partners have aloudy spined up to ministrative GeForceFX cards, including Asia, PNE.

finding its way areo high performance gazzing systems by comparises life Alemware and Casada's own Voodoo PC

Vecdos goes mobile Sperking of Voodoo, the Calgary-based company his tool surrecenced that at will

Binnier | F DT 1500

dengraed an a mebale garring muchase,

festoring Pertaum 4 processorius special up to 5 GPA frame dishing processori with a special cooling return that is a hybrid of lupid said are cooling. The graphics component in these new machines will be the Gefore 4 MCs mobile GPU for with other Vendore.

several deficient valuant colours

BenO speeds up the world of ECD

BenQ speeds up the world of ECD While ECD first panel monitors are making large strends into both the office and home, most haven't been ideal for



FF931, Bettly pair high-yearlier meteors, whose capabilities into a fair peaced design at an entractive point. The F931 features are engouse tree of 16 ms, which allows up to 45 finness per second visions the stage. The water to the straight of the straight The waters also inclusives 450 in the straight of the straight. The waters also finditures 450 in the financiary of the objection of the objectives which the financiary changes when the financiary changes are substituted to the financiary changes a

and SRS sound soft-touch buttons, and

will also be an optional TV tomest with able for the TPSPI White there will also be other menitors than Berd Steatung the to or coupones direc dis-expressive thouse with the cen's that it will be wishlife the cen's that it will be wishlife the public process. - quality process - fair year directors. - Early seed design - EPSPI Steature - Steature and the components

age is key

photo card seader for CompactFlish,

digital modu is inserted, the monitor



ing even finite. During the first day of Continued on page 69



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Say hello to Hyper-Threading

By Span Correllier

Microeff's 2002 WinBBC qualitative

The concept behand Hyper-Threadane



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rical to their predecessors (the ecception tast edge of the display is new written an PATTE or discount the down out able to

The difference between on \$47 MHz. a mere possonable \$753 For that was not

the best performance, so these new tors that can bandle the full worsel

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consider that the new 867 MHz month at 800 MHz Treasum com the next few months it will recome a wil follow such The Superflow model and also furtures two provided USE mer and he muriable noted and

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Pageng is the only company other with an ADC (Apple Barden tage of ADC is that power, USA, and

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Verdonic brings May borne Refer this year, Macrosoft race as a

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- PLATFORM NEWS -Say hells to Hyper-Threading

M'it towards Man a cabella dell'assessa in any The replied in that what become on one side of the nevernor deposit affect what's happening on the other one rescence on year methodosed Practically speaking, you'll be able to do

During the WinHEC conference we saw a demonstration of the technology

duty mumber-countries task using one "half" of the CPU, while the other nor tion therbody decoded and ofered back

able to drop a Hyper-Throading carable rescount into rart any machine-year sees that are Hyper-Threading enabled as cooker to make one of the technology (nobt new Windows XP and Larger on the only own that analify)

Figure Thereshan angenesis and I am better performance right out of the chate (level estamates a boost of su moch over most of the fencionaday that send to est up countries entern moscours. you achieve even better performance

cettinized for Honey, Throwfor or deal, processor configurations.

ad arrost three Three technione the loted \$459°E, the \$45GE, the

cele the 106 CHI Bestian & account at expect, all new Persians & revenues are expected to have library. Threading as principle (but through the loss to recomsers with slower dock speeds, or into the

processor late, which should forward hypotherokey, as those processors namer level percentage still car'd works. (The one potential for change how is modests sevent solution for becomes

users who don't need the use becomes The 3.56 CBb Destines A resource or concernd to cost \$156632 on \$4000 made

question rat at frequency a few different benchlead DSSSTMS7 matherhood with S12 MB of PC1066 RDRAM installed. The emphiss and you Charlett now Enforce \$750 Pro model with 125 Mill of orboard wide memory frameing at 4X

on the best red). We used a 30 GB IBM Desioter hard sting parton was Windows TP

and they with at rumed on ithis year accomplished at the BOOS level). The for number in our benchmarking source below repersons the performance

SysMark 2002	
Internet Control Control	400 DM
Olicy Productedy	197 (180
Secret 2007 (seed oday)	364 (272
PCHINE 2002	
079	2,465 (7,470
Michigan	1,259 (4,567
100	694.040

With the erw benchmarking, it's obvi-



increase (indicated by the SetMark 2003 brachmark marshers) isn't smorhers near 25 percent when using Hyper-Threading, there's soil definintly as improvement

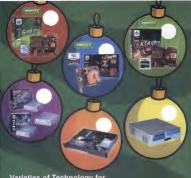
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The curbeythree uses a 300 MHz

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Tyls a mouse you wear on your headthis should a year need at Country Law sary one that is placed on top of your

holiday season.

As with cost same controllers, you swiffles already set un! The raise was be-

Condiess Ostical TrackMass built its entire business around bette periphopis, including a marker of mea-Meet recently, it has been focusing on a













both vito the world of the tradition, a cited your of computer users [myself refusied. The trackball is a usual staffine

10 careng, 2 slites for very worther. mark wretten in all depresent welfour having to every about survey off the The Condiscs Springl Paybone or

ting both the trackfull and a scrall wheel out takes some getting used to. It should Leglish certofen an ser-programaheeks was your 154 or 75/7 peet. The unit transf is powered by a pair of AA batturies 20 fe/by research to with Windows

Windows 3.1 and (95) and Plac (5 8.6 -Sean Considers

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fight with your marks every so often as PC, wrapped around sper coffue cap, or transferd on with the backeted cool and the other cables perting around your the shabes I'v polably true to ea

sidio frequency (RS) connector that backs and 1958 early (the mouse connector has eropeomic deploy that solits the laws free

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Online memorial explores brother's life

That happens when we die!

Usually that question leads to
a discussion of the soul and
the possibility of an attention, but it can
have a defined meaning how any we
represent the first indices and does the

remembered by the Inding, and door that remency change? These were some of the many questions plugging with Faul Levine in the abstracts of the death of the bredies Scheet, killed in a ner cook on BCU-Sen to 5th yellowy in 1999. Lenna struggled to make more of this even, even going to far as to phonograph In-

becides's tensors in the margue. 'It was blarry, that person'. The says by way of explanation.

The result of two years of gathering and assorbhing material in Eurisig the Dord Jonazomphriestroly, as unsetting encoreral.' When Jair that replaces he becker's life and death. Not being a consensual owner, the rate can peak the

* **Test**

"At ceath people stop analyzing you and come to a conclusion. Those conclusions penerate the muth."

generate the myth," tions or computers The mean unknown shows a video dip of Rachard sedecoming

tokes or competers: The mean contribushows a video dip of Rachard sedecening the inchesion, played out on his guiststance. These contributions of giref, the arter of the search stages of giref, the arter offers four different areas to engine with effects four different areas to engine to the contribution. Northlyn, and Nyth, Each office a different perspective on Rechards 16th, date what help pers after, not a much in the corner of on

you can hear his outgroup phone to supe, study his assupey sepert, not wishe of the famous Lovine had allicen-based on drawn Lovine had al-Bishood, and exone. One good of Levine's project was awaid the alkalioning the deceased.

await the idealizing the decision. It is specifically await people to remember to remember to remember to consider with his brooker, whom he describes as a "consideration of people who "single our condition." Hewing this much access to another possible his, repensally after they're dead, can be disconsiding in finds like attendance the feature of th

office.

One of the most energeding places in a Black attenues or exercising the field car accelerat, narrand in a materi-of-fair tone by Relatanth fact year old out. The hop was two at the trave of the acceleration of mily known his father through stress told by other purple.

These conclusions generate the repth! That repth comes to supplies the person who is lost to the living. Levine some to be as unconfortable with his even trazion as appear. He sen's certain the the bester would uppercise how be him been memorialized.

other. bettler in making this recrossed. If street displacing to my femile? Levine says. I think [Richard] would be featured, but the world also be disturbed. Levine plans to take Resing the Daid straid will be about the record of mounting present the best produced by your feet faith by jewed content. It will also be

are Heerest, the six has already been archived by the Rhisters the section of project—a New York as, based secoposit coperations that say point the creation personateles, clocusters, and pronversion of new grefus his cuts—group at his crea sker Leves

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